

“UNITED BY SCIENCE!”



Forewarned is forearmed

Предупреден, наполовина спасен

Проф. Илия Цачев

Тракийски университет - Стара Загора

- **Tsachev I.**
Our Alphabet: A, B, C, D, E, H, I, L, V, Z (Anaplasmoses, Borelioses/Babesioses, Co-Infections, Dirofilarioses, Ehrlichioses, Hosts, Infections, Leishmanioses, Vectors, **Zoonoses** etc.)
 - 8-th Scientific conference of the Bulgarian Focal point of EFSA, Sofia, Bulgaria,
 - 2015

- **Tsachev I, Baymakova M, Pishmisheva M.**
Borrelioses: less known and unfamiliar vector-borne zoonoses.
 - 9-th Scientific conference of the Bulgarian Focal point of EFSA, Hisar, Bulgaria,
 - 2016

- **Tsachev I, M Pishmisheva, R Pepovich, M Baymakova, P Marutsov, L Pekova.**
 A zoonotic threat: **Hepatitis E** virus in pigs and in Bulgaria,
 - 10-th Scientific Conference of the Bulgarian Focal Point of EFSA, Sofia,
 - 2017

- **Николов С, Б. Мурад, Ил.Цачев**
 Диви и синантропни видове птици – възможни резервоари и вектори на **инфлуенца А** при птиците „Актуални проблеми свързани с високопатогенната инфлуенца по птиците H5N8“,
 - Научно-практическа конференция на ЦОРХВ, София,
 - 2017





- **Цачев Ил.**
Ветеринарно обществено здраве (2002/2017):
най-смъртоносната зооноза у нас (1988/2008)
вече и при кучета (2006/2017).
 - Научно-практическа конференция на ЦОРХВ "Епидемиологични аспекти на инфекцията с *Echinococcus granulosus*. Векторно-преносими инфекции при кучето-лайшманиоза и дирофилариоза", София
 - **2017**

- **Цачев Ил.**
"Хепатит Е в България: 2018 с извървяни първи 8 стъпки
 - Научна-практическа конференция
„Актуални проблеми на инфекциите с хепатит Е при хора и животни“, ЦОРХВ, София
 - **2018**

- **Цачев Ил.**
Методи за оценка на риска по отношение на
зоонозите и биологичните опасности
 - Обучителен курс на ЦОРХВ, София
 - **2018**

БАРТОНЕЛОЗИ
BARTONELLOSIS

Breitschwerdt *Parasites & Vectors* (2015) 8:317
DOI 10.1186/s13071-015-0920-4

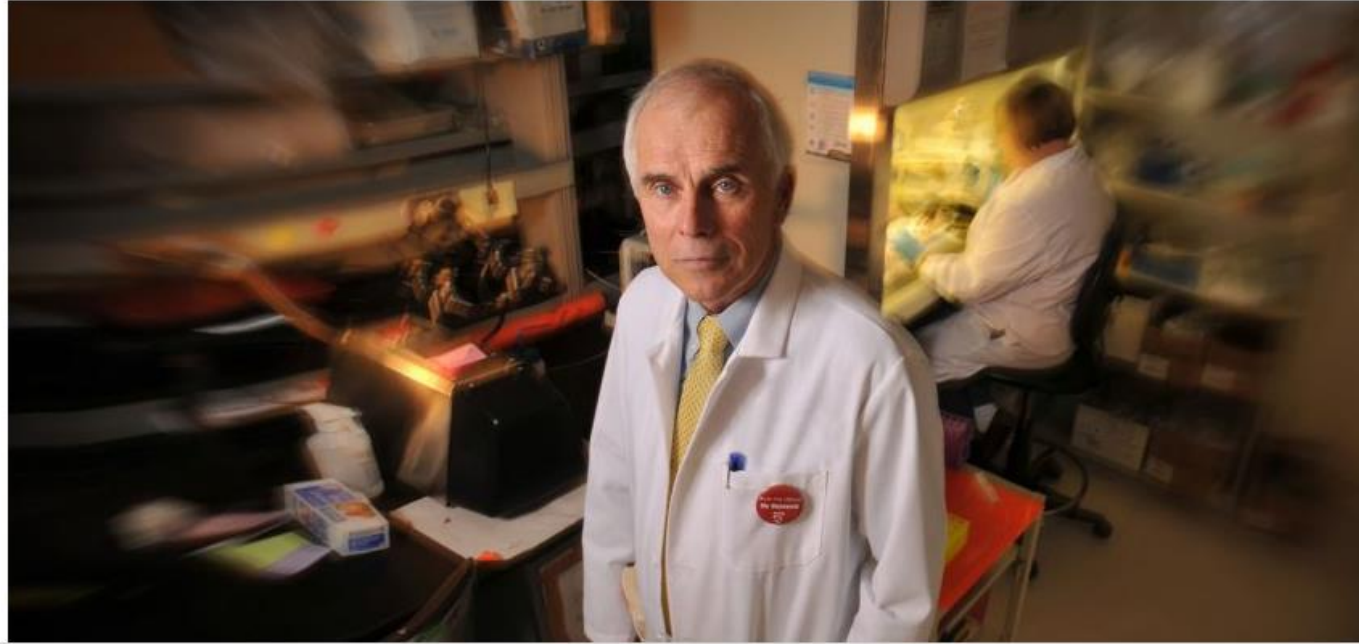


LETTER TO THE EDITOR

Open Access

Did *Bartonella henselae* contribute to the deaths of two veterinarians?

Edward B. Breitschwerdt^{1,2}



Ed Breitschwerdt

- professor of medicine and infectious disease
- spent more than three decades studying vector-transmitted pathogens
- **professor of medicine at Duke University Medical Center**

Главоболіе - Раздражнителист

Don't let **Bartonella** slow you down.

28% of animal health
workers had Bartonella
in their blood.

Most reported
symptoms were
headache &
irritability.



BARTONELLOSIS

Клинични прилики

Comparative pathological and haematological abnormalities associated with canine and human bartonellosis

<i>Abnormality</i>	<i>Dog</i>	<i>Man</i>
PH	+	+
BA	+	+
Endocarditis	+	+
Myocarditis	+	+
Granulomatous		
Lymphadenitis	+	+
Hepatitis	+	+
Panniculitis	+	+
Anterior uveitis	+	+
Encephalitis	+	+
Thrombocytopenia	+	+
Haemolytic anaemia	+	+

Symptoms of Bartonella

- *Unexplained fevers
- *Cold extremities
- *Seizures
- *Severe rage
- *Rash
- *Hot flashes
- *Anxiety/panic attacks
- *Muscle twitches/tremors
- *Inflammation of brain & spinal cord
- *Memory loss
- *Noise intolerance
- *Easily upset
- *Fear
- *Blurred vision
- *Burning & pains in soles, shins & legs
- *Light sensitivity
- *Depression
- *Polyps in/around major organs
- *Intravascular disease
- *Non-pitting edema
- *Severe mood swings
- *Inflammation of bone marrow
- *Eye disorders
- *Vision loss
- *Tender subcutaneous points
- *inflammation of brain causing significant behaviour change
- *Sharp frontal headaches
- *Hot/burning skin
- *Severe muscle spasms
- *Dizziness
- *Lack of muscle coordination
- *Loss of jaw bone
- *Progressive anaemia
- *Muscle weakness
- *Thickened blood
- *Swollen lymph nodes
- *Cold extremities
- *Fainting
- *Unrelenting tingling feet & legs
- *Swollen joints
- *Stretch marks
- *Itchy skin
- *Backache
- *Breathlessness
- *Numerous GI tract disorders
- *Anorexia
- *OCD
- *Weight gain
- *Poor appetite
- *Insomnia/significant sleep disruption
- *Confusion
- *Liver disorder
- *Numbness/paralysis
- *Enlarged spleen
- *Gastritis
- *Fatigue
- *Irritability
- *Low abdominal pain
- *Peripheral neuropathy
- *Eye infections
- *Burning/shooting pains
- *Combative behaviour
- *Pain behind the eyes
- *Infections of the brain
- *Brain fog
- *Spider veins
- *Unexplained bruises



BARTONELLOSIS

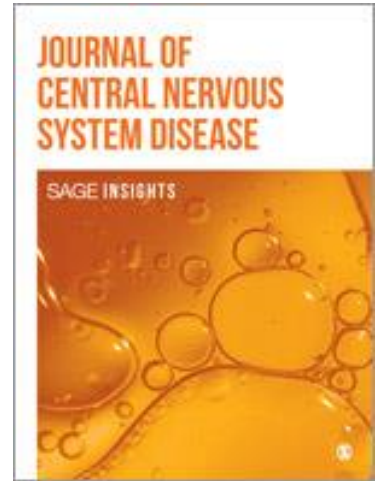
Непозната...самоубийство...

- like many other blood diseases Bart does not get proper recognition.
- it is very serious and can often lead to suicide
- many people have Bartonella without even knowing it
- testing improves



BARTONELLOSIS

21 март 2019



***Bartonella henselae* Bloodstream Infection
in a Boy With Pediatric Acute-Onset
Neuropsychiatric Syndrome**

Edward B Breitschwerdt¹ , Rosalie Greenberg²,
Ricardo G Maggi¹, B Robert Mozayeni³, Allen Lewis⁴
and Julie M Bradley¹

¹Intracellular Pathogens Research Laboratory, Comparative Medicine Institute, College of Veterinary Medicine, North Carolina State University, Raleigh, NC, USA. ²Medical Arts Psychotherapy Associates P.A., Summit, NJ, USA. ³Translational Medicine Group PC, North Bethesda, MD, USA. ⁴Sancta Familia Center for Integrative Medicine, Columbus, OH, USA.

Journal of Central Nervous System Disease
Volume 11: 1–8
© The Author(s) 2019
Article reuse guidelines:
sagepub.com/journals-permissions
DOI: 10.1177/1179573519832014



Surviving bartonellosis - 2010

Veterinarian talks about long-term medical odyssey with disease



Photo by Maximilian Franz

- БИТКА ОТ 20 Г. С БАРТОНЕЛОЗАТА



"I got into this profession because I love animals,
but I think veterinarians need to know about the risks too."

Could your veterinary job destroy your life?

A young mother, athlete, and veterinary practice manager suffered through extreme fatigue and muscle pain for three years before she discovered her life would never be the same.

Could the same thing happen to you simply because of where you work?



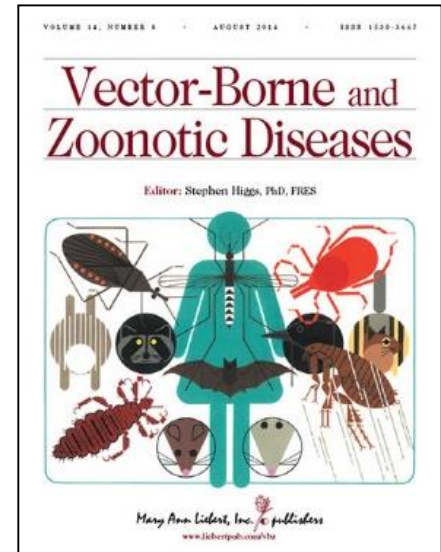
Tracy Vargas

2010

Vector-Borne and Zoonotic Diseases - August 2014

Detection of *Bartonella* Species in the Blood of Veterinarians and Veterinary Technicians: A Newly Recognized Occupational Hazard?

- Lantos P., Maggi R., Ferguson B, Varkey J, Park L., Breitschwerdt E B.
- Duke University - School of Medicine Durham, NC



- *Bartonella* species при 32 (28%) от 114

- *Bartonella* species - 27 от 32 са:

• <i>B. henselae</i>	15	(56%)
• <i>B. vinsonii</i> subsp. <i>berkhoffii</i>	7	(26%)
• <i>B. koehlerae</i>	6	(22%)
• <i>B. volans</i> -like sequence	1	(4%)

Results were correlated with epidemiological variables and symptoms.

Dr. Edward Breitschwerdt

"What became rapidly clear, as we tested
sick veterinarians,

was the fact that a rather high percentage of people -
up to 50 % depending on the population that we looked at -
were actually infected with

one or more *Bartonella* species"

БОЛЕСТ НА ОДРАСКВАНЕТО ОТ КОТКА.....2015



Cat-scratch disease



ELSEVIER

Contents lists available at ScienceDirect

American Journal of Ophthalmology Case Reports

journal homepage: www.ajocasereports.com/



Cat scratch disease: What to do with the cat?

Avital Lily Okrent Smolar^a, Edward B. Breitschwerdt^b, Paul H. Phillips^c, Nancy J. Newman^{a,d,e},
Valérie Biousse^{a,d,*}

^a Department of Ophthalmology, Emory University School of Medicine, Atlanta, GA, USA

^b Department of Clinical Sciences and the Comparative Medicine Institute, College of Veterinary Medicine, North Carolina State University, North Carolina, USA

^c Department of Ophthalmology, Arkansas Children's Hospital, University of Arkansas for Medical Sciences, Little Rock, AR, USA

^d Department of Neurology, Emory University School of Medicine, Atlanta, GA, USA

^e Department of Neurological Surgery, Emory University School of Medicine, Atlanta, GA, USA

Cat-scratch disease: a wide spectrum of clinical pictures

Katarzyna Mazur-Melewska, Anna Mania, Paweł Kemnitz, Magdalena Figlerowicz, Wojciech Służewski

Department of Infectious Diseases and Child Neurology, Poznan University of Medical Sciences, Poznan, Poland
Head of the Department: Prof. Wojciech Służewski MD, PhD

Postep Derm Alergol 2015; XXXII (3): 216–220



Figure 1. Cat-scratch disease – active skin lesions (1 week after inoculation)

Преди лекуване



Figure 2. Cat-scratch disease – the crusted lesions after treatment

След лекуване

B. henselae

Cat-scratch disease: a wide spectrum of clinical pictures

Katarzyna Mazur-Melewska, Anna Mania, Paweł Kemnitz, Magdalena Figlerowicz, Wojciech Służewski

Department of Infectious Diseases and Child Neurology, Poznan University of Medical Sciences, Poznan, Poland
Head of the Department: Prof. Wojciech Służewski MD, PhD

Postep Derm Alergol 2015; XXXII (3): 216–220



Figure 3. Cat-scratch disease – local lymphadenopathy

Увеличен лимфен възел

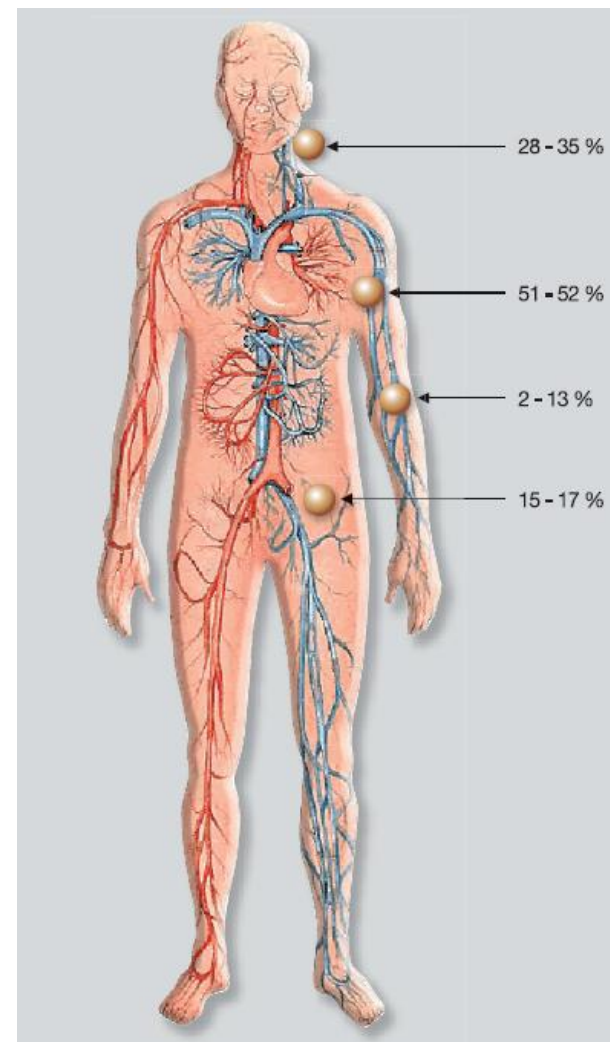


Рана

БОЛЕСТ НА ОДРАСКВАНЕТО ОТ КОТКА.....2015



БОЛЕСТ НА ОДРАСКВАНЕТО ОТ КОТКА.....2015



Clinical Profile and Visual Outcome of Ocular Bartonellosis in Malaysia

TABLE 1: Patient demographic profile.

Demographic data	<i>n</i> (%)
Age in year (mean, SD)	29.3, 13.2
Race	
Malay	19 (100.0)
Sex	
Male	7 (36.8)
Female	12 (63.2)
Cat exposure	
No	14 (73.7)
Yes (contact or scratch)	5 (26.3)
Systemic symptoms	
No	8 (42.1)
Yes	11 (57.9)
Headache	7 (43.8)
Upper respiratory tract infection	2 (12.5)
Fever	6 (37.5)
Lymphadenopathy	1 (6.2)

TABLE 3: Presenting features of ocular bartonellosis.

Parameters	<i>n</i> (%)
Laterality	
Left	8 (42.1)
Right	4 (21.1)
Bilateral	7 (36.8)
Ocular presentation	
Anterior uveitis	6 (31.6)
Neuroretinitis	10 (62.5)
Optic disc edema	8 (42.1)
Focal choroiditis	1 (5.3)
Retinal infiltrates	2 (10.5)
Cotton wool spots	1 (5.3)
Retinal hemorrhages	3 (15.8)
Macular edema	1 (5.3)
Vasculitis	2 (10.5)
IFA serology positivity	
Ig M	13 (68.4)
Ig G	19 (100.0)

IFA, immunofluorescent assay; Ig, immunoglobulin.



Болест на котешко одраскване. Проследяване на клиничен случай

Cat scratch disease: Follow up of a clinical case

2013

П. Станимиров

Университетска клиника по лицево-челюстна хирургия УМБАЛ „Св. Анна“ – София
Катедра орална и лицево-челюстна хирургия – ФДМ, МУ – София

**Жена на 22 год. - консултация в Клиника
по лицево-челюстна хирургия към УМБАЛ
„Св. Анна“ – София по повод**

**болезнен лимфаденит на десните
преаурикуларни и шийни
лимфни възли**



**Лимфаденопатия
на преаурикуларни и
ретромандибуларни
лимфни възли**



**Абсцедиране
на преаурикуларни
лимфни възли**



**Всички засегнати
лимфни възли
са **абсцедирани**
и са **инцизирани****





Т.Д.Г., жена, 56 год.

**Уголемен лимфен възел
в кубиталната ямка с
промянана надлежщата кожа**



БОЛЕСТ НА КОТЕШКОТО ОДРАСКВАНЕ – ПОЗНАВАМЕ ЛИ Я?

КЛИНИЧЕН СЛУЧАЙ

Пишмишева-Пелева М.¹, К. Иванова², П. Лазов³, С. Коцев¹, Г. Стоилов⁴

¹ Инфекционно отделение – МБАЛ-Пазарджик

² СМДЛ „Микробиолаб“ ЕООД - София

³ Кардиологично отделение – МБАЛ Пазарджик

⁴ Отделени е по Образна диагностика - УМБАЛ “Пълмед”- Пловдив

2022



Първичен афект

Ревизирана е прилаганата
до момента терапия
/цефалоспорици и карбапенеми/
с /азитромицин/ - подобряване



Physicians thought a 23-year-old man with erectile dysfunction, pelvic and gonad pain might have cancer. But tests revealed that the diagnosis was an infection caused by a single kitten scratch.

#Bartonella #CatScratchDisease



How a cat scratch made a man impotent

He tested positive for anti-Bartonella.



RESEARCH ARTICLE

Bartonella spp. Bacteremia in Blood Donors
from Campinas, Brazil

БАРТОНЕЛИ И ... ПРИ ДОНОРИТЕ НА КРЪВ – ПРИ ХОРАТА

- 500 кръвни донора - открити антитела за
 - *B. henselae* - 16%
 - *B. quintana* - 32%
- **при 16 донора (3.2%) - Bartonella-PCR positive**
- **Отрицателната серология не изключва инфекцията !**
 - Negative serology does not rule out *Bartonella* spp. infection in healthy subjects.

2016

Balakrishnan et al. *Parasites & Vectors* (2016) 9:254
DOI 10.1186/s13071-016-1547-9

Parasites & Vectors

SHORT REPORT

Open Access

Vasculitis, cerebral infarction and persistent *Bartonella henselae* infection in a child



Nandhakumar Balakrishnan¹, Marna Ericson², Ricardo Maggi¹ and Edward B. Breitschwerdt^{1*}

11-годишно момиче

- С последваща 12-годишна история на неврологични и стомашно-чревни симптоми
 - главоболие, зрителни и слухови халюцинации, безпокойство, загуба на зрение, епизодични пристъпи на генерализирана парализа, парализа на лицевия нерв, хронично безсъние, гърчове, замайване, когнитивна дисфункция и загуба на памет.
- **Bartonella henselae** - BAPGM enrichment PCR

NEURO-PSYCH MANIFESTATIONS

Cases Described

Review:

Neurological Manifestations of
Bartonellosis in
Immunocompetent Patients:
A Composite of Reports from
2005–2012

Breitschwerdt, Sontakke & Hopkins
Journal of Neuroparasitology
Vol. 3 (2012)

Recurrent expressive aphasia in a 15-year-old male

Encephalitis lethargica in a 16-year-old girl

Encephalopathy - 9-year-old girl during admin antibiotics

Fatal encephalopathy in a 6-year-old male

Transverse myelitis in a 46-year-old man

Transverse myelitis in a 13-year-old boy

Expressive Aphasia in a 59-year-old male

MS-like disease in a 27-year-old-man

Psychiatric illness in a 41-year-old male Psychiatric illness in
a male

Psychiatric illness in a female

Meningitis in a 47-year-old woman

Neurological disease in a 50-year-old male

Headaches and insomnia in a 7-year-old female

Hallucinations and visual defects in an 18-year-old female

2011

VECTOR-BORNE AND ZOO NOTIC DISEASES
Volume 11, Number 5, 2011
© Mary Ann Liebert, Inc.
DOI: 10.1089/vbz.2009.0217

SHORT COMMUNICATIONS

Unknown Fever and Back Pain Caused by *Bartonella henselae* in a Veterinarian After a Needle Puncture: A Case Report and Literature Review

Jen-Wei Lin,^{1,*} Chih-Ming Chen,^{2,*} and Chao-Chin Chang³

RESEARCH

Open Access

Bartonella henselae infection in a family experiencing neurological and neurocognitive abnormalities after woodlouse hunter spider bites

Patricia E Mascarelli¹, Ricardo G Maggi¹, Sarah Hopkins², B Robert Mozayani³, Chelsea L Trull¹, Julie M Bradley¹, Barbara C Hegarty¹ and Edward B Breitschwerdt^{1*}



Dysdera crocata

VECTOR-BORNE AND ZOONOTIC DISEASES
Volume 19, Number 4, 2019
© Mary Ann Liebert, Inc.
DOI: 10.1089/vbz.2018.2353

ORIGINAL ARTICLES

Bartonella spp. Bloodstream Infection in a Canadian Family

Edward B. Breitschwerdt,¹ Ricardo G. Maggi,¹ Caroline Quach,²⁻⁴ and Julie M. Bradley¹

Ревматология



[Emerg Infect Dis.](#) 2012 May; 18(5): 783–791

***Bartonella* spp. Bacteremia and Rheumatic Symptoms in Patients from Lyme Disease–endemic Region**

Ricardo G. Maggi, B. Robert Mozayeni, Elizabeth L. Pultorak, Barbara C. Hegarty, Julie M. Bradley, Maria Correa, and Edward B. Breitschwerdt

Ревматолози – 296 пациенти

62% серологично позитивни за бартонела – *hensele, vinsonii, koehlerae*

от тях 68.2% - с клиника

92.2% - с предишни диагнози

46.6% - Лаймска болест

20.6% - артрит

19.6% - хронична умора

6.1% - фибромиалгия

Психиатрия-Неврология-Вътрешни

Seizure 2004; 13: 191–195
doi:10.1016/S1059-1311(03)00159-6

Epilepsia partialis continua in cat scratch disease

MONICA PULIGHEDDU[†], ANTONIO GIAGHEDDU[‡], FABRIZIO GENUGU[†], MARCELLO GIAGHEDDU[†] & FRANCESCO MARROSU[†]

[†]Department of Cardiovascular and Neurological Sciences; [‡]Service of Radiodiagnostic, University of Cagliari, SS 554, Bivio Sestu, 09042 Monserrato, Cagliari, Italy

JOURNAL OF CLINICAL MICROBIOLOGY, Sept. 2008, p. 2856–2861
0095-1137/08/\$08.00+0 doi:10.1128/JCM.00832-08
Copyright © 2008, American Society for Microbiology. All Rights Reserved.

Vol. 46, No. 9

Bartonella sp. Bacteremia in Patients with Neurological and Neurocognitive Dysfunction[▽]

E. B. Breitschwerdt,^{1*} R. G. Maggi,¹ W. L. Nicholson,² N. A. Cherry,¹ and C. W. Woods³

Intracellular Pathogens Research Laboratory, Center for Comparative Medicine and Translational Research, College of Veterinary Medicine, North Carolina State University, Raleigh, North Carolina¹; Rickettsial Zoonoses Branch, Centers for Disease Control and Prevention, Atlanta, Georgia²; and Duke University Medical Center, Durham, North Carolina³

Received 1 May 2008/Returned for modification 16 June 2008/Accepted 10 July 2008

Atypical Cat Scratch Disease With Hepatosplenic Involvement

Sean K. Verma, Angel Martin, and Jose A. Montero

Division of Infectious Disease and International Medicine, Department of Internal Medicine, University of South Florida, Tampa, Florida

Intracranial Aneurysms From Presumed Infective Endocarditis: The Dilemma of Persistently Negative Cultures

Jason Lockrow, MD, PhD¹, Will Longstreth, MD¹,
and Arielle P. Davis, MD¹

¹ Department of Neurology, University of Washington, Seattle, WA, USA

The Neurohospitalist
2016, Vol. 6(2) 80-86
© The Author(s) 2015
Reprints and permission:
sagepub.com/journalsPermissions.nav
DOI: 10.1177/1941874415605879
nhos.sagepub.com

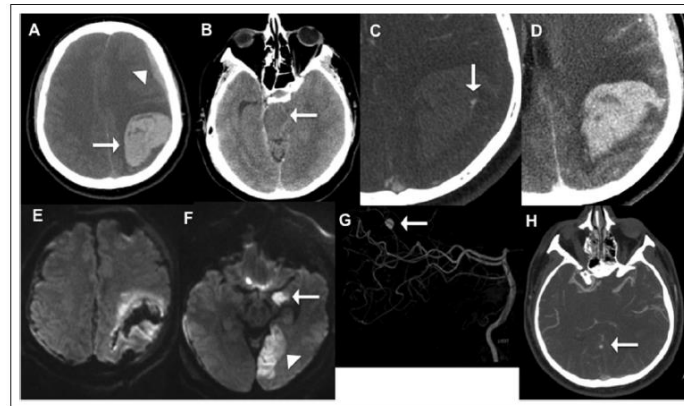


Figure 1. Brain and vessel imaging. Axial noncontrast head computed tomography (CT) on admission with a large left parietal intraparenchymal hemorrhage (arrow) and left frontal subdural hematoma (arrowhead; Panel A) with developing left to right midline shift and left uncus herniation (Panel B). CT angiogram, arterial phase with a focus of hyperattenuation (arrow) within the lateral margin of the hemorrhage concerning for a distal infectious aneurysm (Panel C). Postcontrast scan showed no extravasation of contrast in this same area seen as hyperattenuation on the computed tomography angiogram (CTA) arterial phase, suggesting the contrast was in a vascular structure (Panel D). MRI brain diffusion images demonstrating the evolving left parietal hematoma after evacuation (Panel E), and consequences of herniation: infarcts of the left uncus (arrow) and left posterior cerebral artery distribution (arrowhead; Panel F). Subsequent catheter angiogram with a left vertebral injection confirms a distal right posterior cerebral artery 4.8 × 5.6 mm aneurysm (Panel G), which in retrospect was seen on the admission CTA (arrow; Panel H).

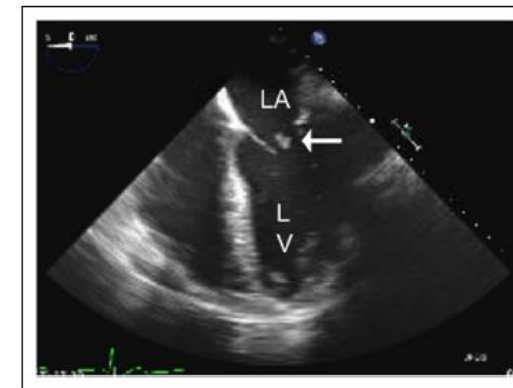


Figure 2. Transesophageal echocardiogram. Four chamber view of the heart showing the left atrium (LA), left ventricle (LV), and mitral valve demonstrating small mobile vegetations present on both leaflets of the mitral valve. Arrow points to the larger vegetation. The initial transthoracic echocardiogram did not reveal these vegetations.

Atypical Cat-Scratch Disease in Children: Report of Seven Presentations Ranging From Hepatosplenic Disease to Horner Syndrome

Olivier Gilliaux,¹ Valerie Ghilain,² Dimitri van der Linden,² Jean Philippe Stalens,³ Catherine Heijmans,⁴ Jacques Louis,⁵ Christiane Vermynen,² and Christophe F. Chantraine^{6,*}

¹Department of Pediatrics, Hôpital Civil Marie Curie, Charleroi, Belgium

²Department of Pediatrics, Cliniques Universitaires Saint-Luc, Université catholique de Louvain (UCL), Brussels, Belgium

³Department of Pediatrics Centre, Centre hospitalier Wallonie Picarde, Tournai, Belgium

⁴Department of Pediatrics, Centre hospitalier de Jolimont, Haine-Saint-Paul, Belgium

⁵Department of Pediatrics, Grand hôpital de Charleroi, Charleroi, Belgium

⁶Department of Pediatrics, Division of Pediatric Hematology Oncology, Clinique de l'Espérance, Centre Hospitalier Chrétien, Montegnée, Belgium

*Corresponding author: Christophe F. Chantraine, Department of Pediatrics, Division of Pediatric Hematology Oncology, Clinique de l'Espérance, Centre Hospitalier Chrétien, 447 Rue St-Nicolas - 4420 Montegnée, Belgium. Tel: +32-42249141, Fax: +32-42249148, E-mail: christophe.chantraine@chc.be

Received 2015 February 28; Accepted 2015 April 30.

Abstract

Introduction: Cat scratch disease (CSD) is an infectious disease caused by the Gram-negative rod *Bartonella henselae* (BH). It usually leads to subacute loco-regional lymphadenitis occasionally associated with fever. In most of the cases, it resolves spontaneously within 4 - 6 weeks. However, CSD has also been associated with other atypical presentations.

Case Presentation: We reported a series of seven children with unusual symptoms of CSD. In particular, we described the case of a child with ptosis, miosis and enophthalmos, suggesting Horner syndrome, associated with cervical lymphadenitis. Cat scratch was mentioned in only one patient, while four of them mentioned a recent contact with cats. We reviewed and discussed the incidence of these atypical presentations of CSD as well as the therapeutic approaches recommended and the available diagnostic tools.

Conclusions: This paper highlighted the need to exclude CSD in children with unexplained symptoms such as prolonged fever, hepatosplenic lesion and osteomyelitis.

Keywords: *Bartonella Henselae*, Cat-Scratch Disease, Horner Syndrome, Osteomyelitis, Atypical Presentation, Systemic Manifestation

И при ... бездомни ... алкохолици

BARTONELLA QUINTANA



Chronic *Bartonella quintana* Bacteremia in Homeless Patients — NEJM



The NEW ENGLAND
JOURNAL of MEDICINE

IF = 59.558

HOMEARTICLES & MULTIMEDIA ▾ISSUES ▾SPECIALTIES & TOPICS ▾FOR AUTHORS ▾CME ▸

ORIGINAL ARTICLE

Chronic *Bartonella quintana* Bacteremia in Homeless Patients

Philippe Brouqui, M.D., Ph.D., Bernard Lascola, M.D., Ph.D., Veronique Roux, Pharm.D., Ph.D., and Didier Raoult, M.D., Ph.D.
N Engl J Med 1999; 340:184-189 | January 21, 1999 | DOI: 10.1056/NEJM199901213400303

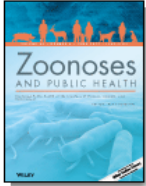
Share:     

AbstractArticleReferencesCiting Articles (100)

Trench fever, the first reported clinical manifestation of infection with *Bartonella quintana*, was first recognized during World War I, when it is estimated to have affected more than 1 million people, with outbreaks reported in Russia and on the European fronts.¹ The disease was described as a five-day fever with clinical manifestations ranging from fever alone to serious illness with severe headaches and leg pain. Body lice were shown to be the vector, and improvements in hygienic conditions have prevented large outbreaks since that time. New manifestations of infection with *B. quintana* were described in 1992 in patients with bacillary angiomatosis who were infected with the human immunodeficiency virus (HIV).² Since then, we and others have shown that the organism may also cause endocarditis with bacteremia.^{3,4} Homeless people and people with alcoholism are at risk for *B. quintana* infection. The reemergence of trench fever has been confirmed in Marseilles, France,⁵ in Seattle,⁶ in Baltimore (among injection-drug users),⁷ and in Burundi.⁸ However, the current clinical spectrum of the disease and the vector involved in urban trench fever have yet to be determined. After completing a two-year seroepidemiologic study in Marseilles, we investigated *B. quintana* infections and their relation to lice among homeless people who presented to the emergency department.

Zoonoses and Public Health

© Blackwell Verlag GmbH



Edited By: Mary Torrence

Impact Factor: 2.574

ISI Journal Citation Reports © Ranking: 2015: 6/138 (Veterinary Sciences);
39/83 (Infectious Diseases)

Online ISSN: 1863-2378

Румъния – 2017

Received: 18 August 2016

DOI: 10.1111/zph.12353

SHORT COMMUNICATION

WILEY

Seroprevalence of *Bartonella* species, *Coxiella burnetii* and *Toxoplasma gondii* among patients with hematological malignancies: A pilot study in Romania

C. J. Messinger¹ | E. S. Gurzau^{2,3} | E. B. Breitschwerdt^{4,5} | C. I. Tomuleasa^{6,7} |
S. J. Trufan⁸ | M. M. Flonta⁹ | R. G. Maggi^{4,5} | I. Berindan-Neagoe^{6,10,11} | P. M. Rabinowitz⁸

- 51 - пациенти с левкемия и хемотерапия
 - 58.8% - живеят на село+животни
- **38% - antibodies to #Bartonella IgG**
- При пациентите свързани с работа с животни на село
 - 3.6 пъти по-често се установяват антитела срещу Bartonella
- **patients with hematologic cancer** in Romania may be at **risk for zoonotic infections** or for reactivation of latent zoonotic infections" due to exposure to livestock and other animals



1 от 4 котки в България е с бартонели!

Болна ли е? (2022)

New!

Котки – домашни и улични (2022)

Монтана

- ELISA - **30 %** 12 (40)
- PCR - 25 % 10 (40)
- PCR/ELISA - 8 % 3 (40)

Плевен

- ELISA - **45 %** 18 (40)
- PCR - 28 % 11 (40)
- PCR/ELISA - 12 % 5 (40)

Perovich R, I. Tsachev, G. Krumova-Valcheva, Gospodinova K., G. Stoimenov,
M. Baymakova, & P. Genova-Kalou

Хора – PCR Bartonella + (2022)

- 239 - ветеринарни лекари
 - **3 +**
 - - 2 от София и 1 от Ямбол
- 6 - работници от ферма
 - **1 +** - Велико Търново

Perovich R, I. Tsachev, G. Krumova-Valcheva, Gospodinova K., G. Stoimenov, M. Baymakova, & **P. Genova-Kalou**

“Knowing that
forewarned is forearmed”

"Предупрежден –
наполовина спасен"

Благодаря